```
EEEEEEEEEEEEEEE  RRRRRRRRRRR     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR    FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR    FFFFFFFFFFFFFFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
```

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Va
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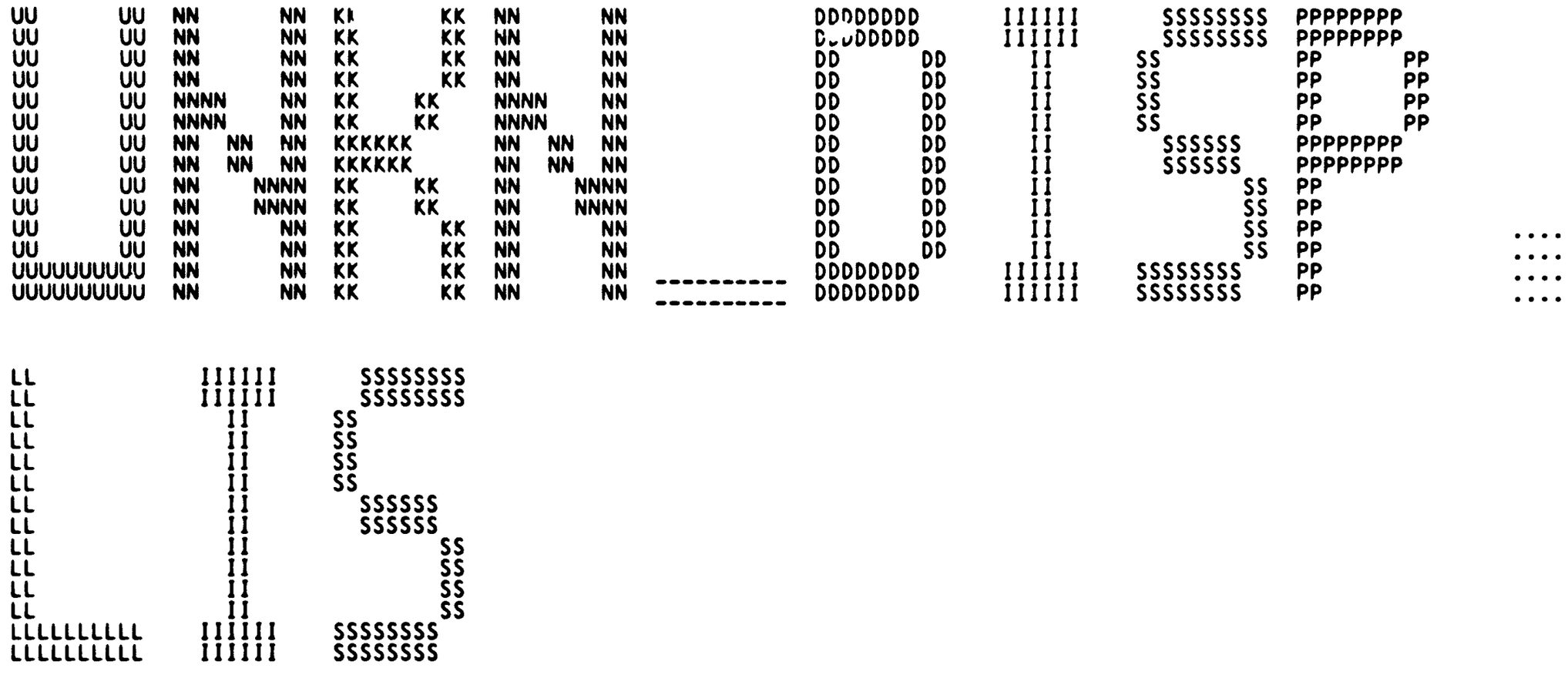
00
00
00

FILEID**UNKN_DISP



```
;     1          0001  0 Module UNKN_DISP
;     2          0002  0 (%TITLE 'Unknown Dispatcher'
;     3          0003  0 IDENT = 'V04-000') =
;     4          0004  0
;     5          0005  1 Begin
;     6          0006  1
;     7          0007  1 !
;     8          0008  1 !**************************************************************************
;     9          0009  1 !*                                                                        *
;    10          0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
;    11          0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
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;    19          0019  1 !*  TRANSFERRED.                                                           *
;    20          0020  1 !*                                                                        *
;    21          0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
;    22          0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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;    24          0024  1 !*                                                                        *
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;    26          0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
;    27          0027  1 !*                                                                        *
;    28          0028  1 !*                                                                        *
;    29          0029  1 !**************************************************************************
;    30          0030  1 !
;    31          0031  1 !++
;    32          0032  1 ! FACILITY:  ERF, Error Log Report Generator
;    33          0033  1 !
;    34          0034  1 ! ABSTRACT:
;    35          0035  1 !
;    36          0036  1 !       This module contains the dispatching routines for outputing
;    37          0037  1 !       'unknown' entries.
;    38          0038  1 !
;    39          0039  1 ! ENVIRONMENT:
;    40          0040  1 !
;    41          0041  1 !       VAX/VMS operating system, user mode.
;    42          0042  1 !
;    43          0043  1 ! AUTHOR:  Sharon Reynolds,     CREATION DATE:  April 1983
;    44          0044  1 !
;    45          0045  1 ! Modified By:
;    46          0046  1 !
;    47          0047  1 !       V03-003 EAD0190         Elliott A. Drayton              6-Jul-1984
;    48          0048  1 !               Obtain the value of LSTLUN from SYECOM.
;    49          0049  1 !
;    50          0050  1 !       V03-002 EAD0143         Elliott A. Drayton      12-Apr-1984
;    51          0051  1 !               Remove reference to EMBETDEF.REQ.
;    52          0052  1 !
;    53          0053  1 !       V03-001 SAR0018         Sharon A. Reynolds,     22-Apr-1983
;    54          0054  1 !               Changed references to valid_class,valid_cpu,valid_entry,
;    55          0055  1 !               and valid_type so they would be accessed via SYECOM.
;    56          0056  1 !
;    57          0057  1 !--
```

```
;    58          0058  1
;    59          0059  1 !
;    60          0060  1 ! Require files
;    61          0061  1 !
;    62          0062  1 Require 'SRC$:RECSELDEF.REQ' ;          ! EMB field definitions
;    63          0193  1 Require 'SRC$:ERFDEF.REQ' ;             ! ERF common definitions
;    64          0479  1
;    65          0480  1 Forward routine
;    66          0481  1     Unknown_dispatcher: NOVALUE ;
;    67          0482  1
;    68          0483  1
;    69          0484  1 External routine
;    70          0485  1     Dumpreg,
;    71          0486  1     Header,
;    72          0487  1     Logger,
;    73          0488  1     Unknown1,
;    74          0489  1     Unknown2,
;    75          0490  1     Unknown3 ;
;    76          0491  1
;    77          0492  1
;    78          0493  1 External
;    79          0494  1     Input_rab:          $BBLOCK [],
;    80          0495  1     Syecom:             $BBLOCK PSECT (SYECOM);
;    81          0496  1
;    82          0497  1 Own
;    83          0498  1     Temp_buf:           PSECT(EMB),
;    84          0499  1     Emb_buf:            Initial (temp_buf)
;    85          0500  1                         REF $BBLOCK,
;    86          0501  1     Unknown_entry:      LONG,
;    87          0502  1     Unknown_device:     LONG,
;    88          0503  1     Unknown_cpu:        LONG;
;    89          0504  1
;    90          0505  1
```

```
;    92          0506  1 Global Routine UNKNOWN_DISPATCHER: NOVALUE =
;    93          0507  2 Begin
;    94          0508  2
;    95          0509  2 !++
;    96          0510  2 !
;    97          0511  2 ! Functional Description:
;    98          0512  2 !
;    99          0513  2 !    This routine dispatches to any module necessary for the output
;   100          0514  2 !    of 'unknown' entries.
;   101          0515  2 !
;   102          0516  2 ! Calling Sequence:
;   103          0517  2 !
;   104          0518  2 !    Unknown_dispatcher ()
;   105          0519  2 !
;   106          0520  2 ! Input Parameters:
;   107          0521  2 !
;   108          0522  2 !
;   109          0523  2 ! Output Parameters:
;   110          0524  2 !
;   111          0525  2 !    None
;   112          0526  2 !
;   113          0527  2 !--
;   114          0528  2
;   115          0529  2 !
;   116          0530  2 ! Record_size = Size (bytes) of the entry being processed
;   117          0531  2 !
;   118          0532  2 Bind record_size = input_rab[rab$w_rsz] ;
;   119          0533  2
;   120          0534  2 Unknown_entry = $descriptor(''UNKNOWN ENTRY'') ;
;   121          0535  2 Unknown_device = $descriptor (''UNKNOWN DEVICE'' ENTRY') ;
;   122          0536  2 Unknown_cpu = $descriptor (''UNKNOWN CPU'' ENTRY') ;
;   123          0537  2
;   124          0538  2 !
;   125          0539  2 ! Output the first two lines of the entry header.
;   126          0540  2 !
;   127          0541  2 HEADER (syecom[sye$l_lstlun]) ;
;   128          0542  2
;   129          0543  2 !
;   130          0544  2 ! Determine what message to output in the entry header.
;   131          0545  2 !
;   132          0546  3 If (.syecom[sye$b_valid_cpu] AND (NOT .syecom[sye$b_valid_entry]))
;   133          0547  2 Then
;   134          0548  2     !
;   135          0549  2     ! Indicate that this is an unknown entry type.
;   136          0550  2     !
;   137          0551  2     LOGGER (syecom[sye$l_lstlun], .unknown_entry)
;   138          0552  2 Else
;   139          0553  3     Begin
;   140          0554  4     If (.syecom[sye$b_valid_cpu] AND
;   141          0555  5         (.emb_buf[emb$w_hd_entry] EQL EMB$C_DE OR       ! Device error 1
;   142          0556  5         .emb_buf[emb$w_hd_entry] EQL EMB$C_DT OR        ! Device timeout 96 %x60
;   143          0557  4         .emb_buf[emb$w_hd_entry] EQL EMB$C_DA) OR       ! Device attention 98 %x62
;   144          0558  4         (NOT .syecom[sye$b_valid_class]) OR
;   145          0559  4         (NOT .syecom[sye$b_valid_type]))
;   146          0560  3     Then
;   147          0561  3         !
;   148          0562  3         ! Indicate that this is an unknown device.
```

```
;  149          0563  3          !
;  150          0564  3          LOGGER (syecom[sye$l_lstlun], .unknown_device)
;  151          0565  3      Else
;  152          0566  4          Begin
;  153          0567  5          If (NOT .syecom[sye$b_valid_cpu])
;  154          0568  4          Then
;  155          0569  4              !
;  156          0570  4              ! Indicate that this is an unknown cpu type.
;  157          0571  4              !
;  158          0572  4              LOGGER (syecom[sye$l_lstlun], .unknown_cpu) ;
;  159          0573  3          End ;
;  160          0574  2      End ;
;  161          0575  2
;  162          0576  2  !
;  163          0577  2  ! Output the contents of the header packet.
;  164          0578  2  !
;  165          0579  2  UNKNOWN1 (syecom[sye$l_lstlun]) ;
;  166          0580  2
;  167          0581  2  !
;  168          0582  2  ! Determine what else in the entry can be translated and call the
;  169          0583  2  ! appropriate routine to do so.
;  170          0584  2  !
;  171          0585  2  If (.emb_buf[emb$w_hd_entry] EQL EMB$C_DE) OR          ! Device error 1
;  172          0586  3      (.emb_buf[emb$w_hd_entry] EQL EMB$C_DT)          ! Device timeout 96 %x60
;  173          0587  2  Then
;  174          0588  2      !
;  175          0589  2      !
;  176          0590  2      !
;  177          0591  2      UNKNOWN2 (syecom[sye$l_lstlun])
;  178          0592  2  Else
;  179          0593  3      Begin
;  180          0594  4      If (.emb_buf[emb$w_hd_entry] EQL EMB$C_DA)          ! Device attention 98 %x62
;  181          0595  3      Then
;  182          0596  3          !
;  183          0597  3          !
;  184          0598  3          !
;  185          0599  3          UNKNOWN3 (syecom[sye$l_lstlun])
;  186          0600  3      Else
;  187          0601  3          !
;  188          0602  3          ! Nothing else can be translated, output the remainder of the
;  189          0603  3          ! entry in a longword, hexadecimal format.
;  190          0604  3          !
;  191          0605  3          DUMPREG (syecom[sye$l_lstlun], %REF((((.record_size + 3)/4) - 4)),
;  192          0606  3                   emb_buf[16,0,0,0]) ;
;  193          0607  2      End ;
;  194          0608  2
;  195          0609  2  Return
;  196          0610  1  End ;   ! Routine


                                                                .TITLE  UNKN_DISP Unknown Dispatcher
                                                                .IDENT  \V04-000\

                                                                .PSECT  $PLIT,NOWRT,NOEXE,  PIC,2

22  59  52  54  4E  45  20  4E  57  4F  4E  4B  4E  55  22  00000 P.AAB:  .ASCII  \'UNKNOWN ENTRY'\                    ;
                                                        0000F           .BLKB   1
```

```
                                                  0000000F  00010 P.AAA:  .LONG   15                                              ;
                                                  00000000' 00014        .ADDRESS P.AAB                                           ;
45  43  49  56  45  44  20  4E  57  4F  4E  4B  4E  55  22  00018 P.AAD:  .ASCII  \''UNKNOWN DEVICE'' ENTRY\                        ;
                                                    59  52  54  4E  45  20  22  00027                                           ;
                                                                00002E        .BLKB   2                                           ;
                                                  00000016  00030 P.AAC:  .LONG   22                                              ;
                                                  00000000' 00034        .ADDRESS P.AAD                                           ;
45  20  22  55  50  43  20  4E  57  4F  4E  4B  4E  55  22  00038 P.AAF:  .ASCII  \''UNKNOWN CPU'' ENTRY\                          ;
                                                        59  52  54  4E  00047                                                   ;
                                                                00004B        .BLKB   1                                           ;
                                                  00000013  0004C P.AAE:  .LONG   19                                              ;
                                                  00000000' 00050        .ADDRESS P.AAF                                           ;

                                                                               .PSECT  EMB,NOEXE,  SHR,  GBL,  OVR,  PIC,2

                                                            00000 TEMP_BUF:
                                                                               .BLKB   4

                                                                               .PSECT  $OWN$,NOEXE,  PIC,2

                                                  00000000' 00000 EMB_BUF:.ADDRESS TEMP_BUF                                     ;
                                                            00004 UNKNOWN_ENTRY:
                                                                               .BLKB   4
                                                            00008 UNKNOWN_DEVICE:
                                                                               .BLKB   4
                                                            0000C UNKNOWN_CPU:
                                                                               .BLKB   4

                                                                               .EXTRN  DUMPREG, HEADER
                                                                               .EXTRN  LOGGER, UNKNOWN1
                                                                               .EXTRN  UNKNOWN2, UNKNOWN3
                                                                               .EXTRN  INPUT_RAB, SYECOM

                                                                               .PSECT  $CODE,NOWRT,  PIC,2

                                                      003C 00000               .ENTRY  UNKNOWN_DISPATCHER, Save R2,R3,R4,R5    ; 0506
                55 00000000'   00  9E 00002               MOVAB   P.AAA, R5                                               ;
                54 00000000'   00  9E 00009               MOVAB   UNKNOWN_ENTRY, R4                                       ;
                53 00000000G   00  9E 00010               MOVAB   SYECOM+39, R3                                           ;
                5E                 04  C2 00017               SUBL2   #4, SP                                                  ;
                64                 65  9E 0001A               MOVAB   P.AAA, UNKNOWN_ENTRY                                    ; 0534
          04    A4         20    A5  9E 0001D               MOVAB   P.AAC, UNKNOWN_DEVICE                                   ; 0535
          08    A4         3C    A5  9E 00022               MOVAB   P.AAE, UNKNOWN_CPU                                      ; 0536
                                   53  DD 00027               PUSHL   R3                                                      ; 0541
00000000G       00                 01  FB 00029               CALLS   #1, HEADER                                              ;
                52         F3      A3  9A 00030               MOVZBL  SYECOM+26, R2                                           ; 0546
                25                 52  E9 00034               BLBC    R2, 2$                                                  ;
                04         F4      A3  E8 00037               BLBS    SYECOM+27, 1$                                           ;
                                   64  DD 0003B               PUSHL   UNKNOWN_ENTRY                                           ; 0551
                                   30  11 0003D               BRB     5$                                                      ;
                1A                 52  E9 0003F 1$:           BLBC    R2, 2$                                                  ; 0554
                50         FC      A4  D0 00042               MOVL    EMB_BUF, R0                                             ; 0555
                01         04      A0  B1 00046               CMPW    4(R0), #1                                               ;
                                   18  13 0004A               BEQL    3$                                                      ;
          0060  8F         04      A0  B1 0004C               CMPW    4(R0), #96                                              ; 0556
                                   10  13 00052               BEQL    3$                                                      ;
          0062  8F         04      A0  B1 00054               CMPW    4(R0), #98                                              ; 0557
```

```
                                     08  13 0005A          BEQL    3$                                      ;
                               04    F2  A3 E9 0005C 2$:    BLBC    SYECOM+25, 3$                           ; 0558
                               05    F5  A3 E8 00060        BLBS    SYECOM+28, 4$                           ; 0559
                                     04  A4 DD 00064 3$:    PUSHL   UNKNOWN_DEVICE                          ; 0564
                                     06  11 00067          BRB     5$                                      ;
                               0C        52 E8 00069 4$:    BLBS    R2, 6$                                  ; 0567
                                     08  A4 DD 0006C        PUSHL   UNKNOWN_CPU                             ; 0572
                                     53  DD 0006F 5$:      PUSHL   R3                                      ;
                  00000000G    00        02 FB 00071        CALLS   #2, LOGGER                              ;
                                     53  DD 00078 6$:      PUSHL   R3                                      ; 0579
                  00000000G    00        01 FB 0007A        CALLS   #1, UNKNOWN1                            ;
                               52    FC  A4 D0 0C081        MOVL    EMB_BUF, R2                             ; 0585
                               01    04  A2 B1 00C85        CMPW    4(R2), #1                               ;
                                     08  13 00089          BEQL    7$                                      ;
                      0060     8F    04  A2 B1 0008B        CMPW    4(R2), #96                              ; 0586
                                     0A  12 00091          BNEQ    8$                                      ;
                                     53  DD 00093 7$:      PUSHL   R3                                      ; 0591
                  00000000G    00        01 FB 00095        CALLS   #1, UNKNOWN2                            ;
                                     04  00 0009C          RET                                             ;
                      0062     8F    04  A2 B1 0009D 8$:    CMPW    4(R2), #98                              ; 0594
                                     0A  12 000A3          BNEQ    9$                                      ;
                                     53  DD 000A5          PUSHL   R3                                      ; 0599
                  00000000G    00        01 FB 000A7        CALLS   #1, UNKNOWN3                            ;
                                     04  00 000AE          RET                                             ;
                               10    A2  9F 000AF 9$:       PUSHAB  16(R2)                                  ; 0606
              50  00000000G    00        03 C1 000B2        ADDL3   #3, RECORD_SIZE, R0                     ; 0605
                               50        04 C6 000BA        DIVL2   #4, R0                                  ;
                         04    AE  FC    A0 9E 000BD        MOVAB   -4(R0), 4(SP)                           ;
                               04  AE    9F 000C2           PUSHAB  4(SP)                                   ;
                                     53  DD 000C5          PUSHL   R3                                      ;
                  00000000G    00        03 FB 000C7        CALLS   #3, DUMPREG                             ; 0606
                                     04  00 000CE          RET                                             ; 0610

; Routine Size:  207 bytes,    Routine Base:  $CODE + 0000

;  197          0611  1
;  198          0612  1 End     ! Module
;  199          0613  0 ELUDOM



;                                    PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  EMB                             4  NOVEC,  WRT,  RD ,NOEXE,  SHR,  GBL,  REL,  OVR,  PIC,ALIGN(2)
;  $OWN$                          16  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
;  $PLIT                          84  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
;  $CODE                         207  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
```

```
;                              Library Statistics
;
;                                        --------- Symbols ---------      Pages       Processing
;       File                             Total     Loaded    Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1          18619        26          0        1000        00:02.0
;
;
;
;
;
;
;                                    COMMAND QUALIFIERS
;
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:UNKN_DISP/OBJ=OBJ$:UNKN_DISP MSRC$:UNKN_DISP/UPDATE=(ENH$:UNKN_DISP)
;
; Size:         207 code + 104 data bytes
; Run Time:       00:09.0
; Elapsed Time:   00:20.2
; Lines/CPU Min:   4109
; Lexemes/CPU-Min: 24382
; Memory Used:  108 pages
; Compilation Complete
```

0154 AH-BT13A-SE
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